



TFM-1000

**THICK FILM CONDUCTOR ON CERAMIC
PRINT INSPECTION PROCESS MODULE**

MIDAS Vision's TFM-1000 automatic optical inspection (AOI) system is designed to reliably find the most important yield-limiting defects occurring in the thick film print process on hard ceramic. Using Adaptive Analysis algorithms, the system instantly identifies true defects in the screen-printed pattern, while compensating for natural process variations. The TFM-1000 comes with a set of polarizers, diffusers, and blue dichroic filters for robust imaging of gold, silver, and tungsten conductor inks, in addition to black resistive ink.

The TFM-1000 operates at high speed, and can be used for in-process print monitoring or 100% inspection. As a process monitor, the system dramatically reduces process set-up time by providing instant "first article" feedback. It also prevents large runs of defective parts during production. The system also includes a built-in verification station with magnified displays of both the color-coded analysis of each defect and the defect's video image. Automatic defective part marking capability is optional.

The TFM-1000 comes ready for integration into any manufacturing facility as a stand-alone inspection system or an island of automation with loader and un-loader. Physically, it has a small footprint, and comes with casters for easy portability. Electrically, it uses standard single-phase 110/220 VAC power. By design, it requires very little maintenance.

Manufacturing staffs will be drawn to use the TFM-1000, not only for its extraordinary ability to catch defects, but also for its fast set-up, simple operation, and effective display. Process engineers will appreciate the critical feedback it provides for production process problems and the data it generates for statistical analysis.



● TFM-1000 Key Features

- Extremely Accurate Inspection Of Conductor Print Pattern
- Built-in Verification Station
- Golden Sample Reference (CAD Optional)
- High Throughput Rate
- Fast Setup, Simple Operation
- Small Footprint
- Automatic Part Handling Option

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**MIDAS
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